

AIR CONDITIONER MANUFACTURER
Turbo air

ROOM AIR CONDITIONER

OWNER'S MANUAL

SPLIT AIRCONDITIONING SYSTEM

TAS-09SVH / 12SVH



Please read carefully and thoroughly this manual before operating the unit.

If you still have any difficulties or problems, consult your dealer for help or Turbo Air Inc.

Please keep this manual handy.

Safety instructions

PLEASE READ THE FOLLOWING SAFETY INSTRUCTIONS BEFORE IN-STALLING AND OPERATING THE UNIT:

This air conditioner meets strict safety and operating standards. The installer of this unit must install or service this unit so it operates safe-ly and efficiently.

IMPORTANT NOTES

- Adhere to all safety instructions and warnings throughout this manual.
- Read this manual carefully before installing or operating this unit to become familiar with its features and obtain the perfor-mance that will bring you continued enjoyment for many years.
- Follow each installation or repair step exactly as shown in the manual.
- Observe all local, state and national electric codes. Contact your local government for more information on electrical codes.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of suffi-cient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of im-portant operating and maintenance (servicing) in-structions in the literature accompanying the appli-ance.

Contact Installer if Necessary:

The installation instructions are for a experienced installer. If you are not an experienced installer, contact a local installer for help.

If Unit is Installed Improperly:

The manufacturer shall in no way be responsible for improper instal-lation or maintenance service, including failure to follow the instruc-tions in this manual.

Precautions When Wiring:

- Do not plug in the unit until all connections (tubing, drain hose,mounting, etc.) have been made and double-checked.

- High voltages are present in this unit and are very dangerous. Please refer to these instructions and diagrams when wiring. Improper connections or inadequate grounding can cause acciden-tal injury.
- This unit must be grounded in accordance with local electrical codes.
- Connect wires and pipes securely and tightly as loose connec-tions/ wiring may cause overheating at connections and a possible fire hazard.

Precautions When Transporting:

- When transporting the unit, be very careful and get help as the units are very heavy. Be careful of sharp edges on the units also.

Precautions When Installing:

- When installing in a ceiling or wall, make sure the ceiling/wall is strong enough to hold the unit's weight. A frame may be necessary for added support.
- When installing in a room, make sure the tubes are well insulat-ed to protect the walls and furniture from sweating of the tubes.
- When installing in moist or uneven locations, make sure to use a raised level concrete pad or concrete blocks to provide a level, solid foundation for the outdoor unit; this prevents water damage and vibration.
- When installing in an area of high winds, make sure to securely anchor the outdoor unit down with bolts and a metal frame.

When Connecting Refrigerant Tubing:

- Keep all tubing as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten , making sure not to overtighten.
- Check the tubes carefully for leaks before starting the test run.

WARNING:

- ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL IN-JURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELEC-TRICIAN/ INSTALLER SHOULD ATTEMPT TO WIRE THIS SYS-TEM.
- THE APPLIANCE IS NOT INTENDED FOR USE BY CHIL-DRENOR INFIRM PERSONS WITHOUT SUPERVISION.
- YOUNG CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT DO NOT PLAY WITH THE APPLIANCE

When Servicing:

- Make sure the power is off and the unit is unplugged before open-ing the unit to troubleshoot or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the sight after you finish, making sure no metal scraps and wiring are left in the unit.
- The Air conditioner shall be installed in accordance with the na-tioned wiring regulation.
- The equipment fulfills the requirements in EN 61 000-3-11 and is subject to conditional connection to the mains.
- It may be connected in consultation with the supply authority.
- The equipment may only be connected to a mains supply with a system impedance of less than 0.3 ohm.
- The system impedance in the interface point may be obtained from the supply authority.
- If the mains supply has a higher system impedance, short voltage dips may appear when the equipment is started or during operation.
- This may influence or disturb the operation of other apparatuses, e.g. flickering lamps, especially those connected to the same supply mains.

ROOM AIR CONDITIONER INSTRUCTION

Remark per EMC Directive 89/336/EEC

To prevent flicker impressions during the start of the compressor (technical process) following installation conditions do apply.

1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of an low impedance. Normally the required impedance is reached at a 32A fusing point. Air conditioner fuse has to be 16A max!
2. No other equipment has to be connected to this power line.
3. For detailed installation acceptance please refer to your contract with the power supplier. If restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For power details of the air conditioner refer to the rating plate of the product.

**Disposal of Used Electrical & Electronic Equipment**

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipments waste. In the European Union and Other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

**26 RoHS(2002/95/EC) Compliant**

This environment-friendly product does not contain the EU RoHS restricted substances (Pb, Hg, Cd, Cr⁶⁺, PBB, and PBDE).

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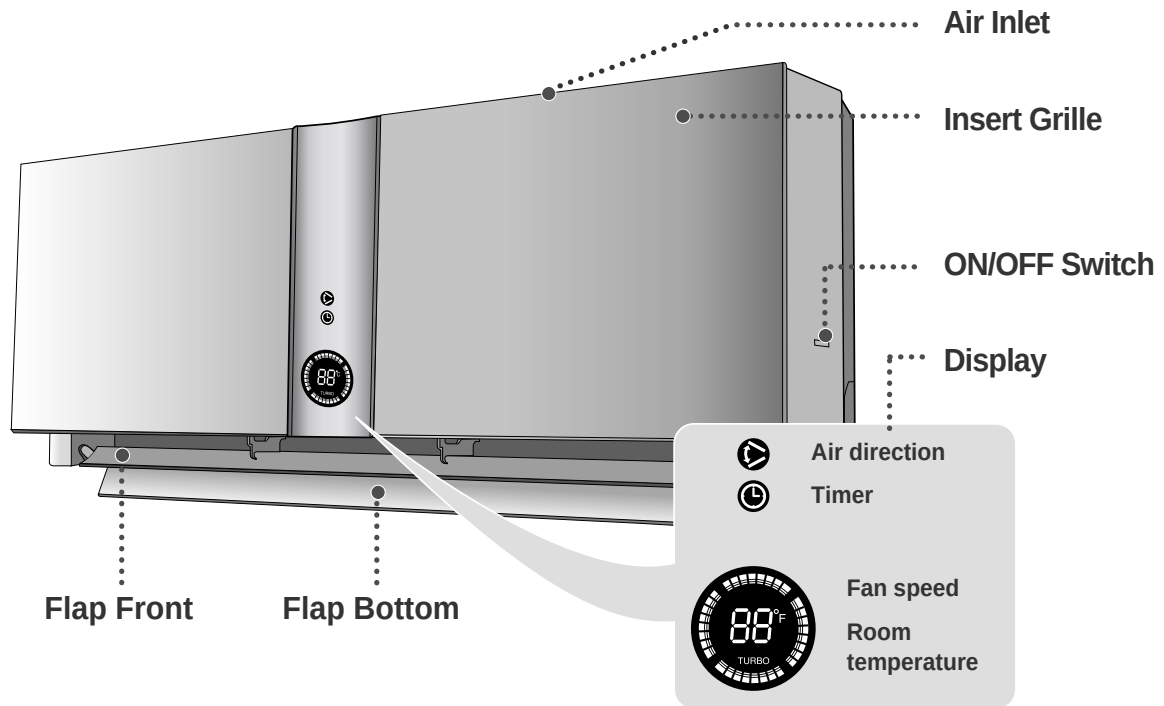
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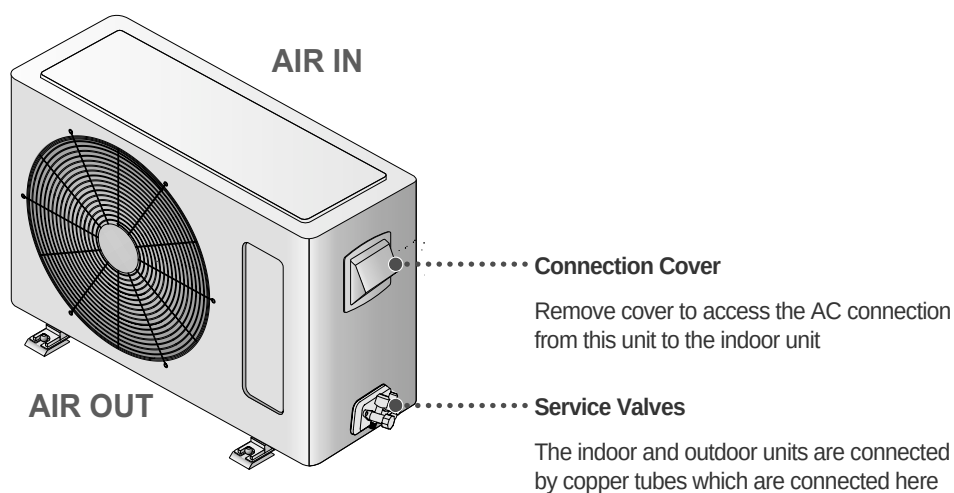
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Names of parts

Indoor Unit



Outdoor Unit



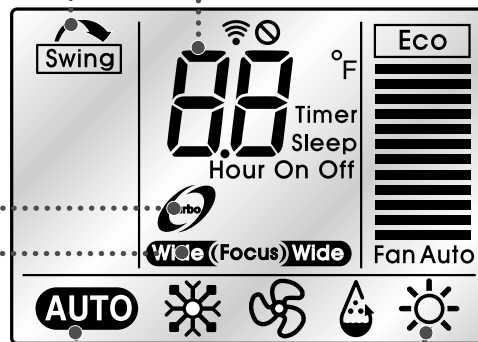
TAS-09SVH/12SVH

Remote Display

Air Direction Indicator
Lights to indicate the air direction

Turbo Indicator
Lights to indicate the turbo mode

Air Direction Indicators
Lights to indicate the air will flow focus and wide.

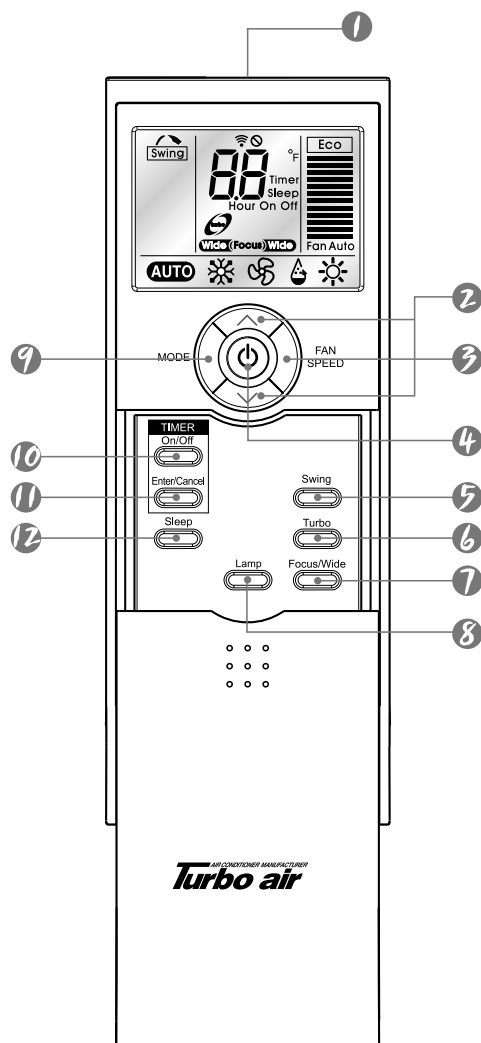


Temperature & Reservation Time Indicator
Lights to indicate the temperature or time

Fan speeds indicators
Lights to indicate the fan speed

Mode Indicators
(Auto/Cool/Fan/Dehumidifier/heat)
Lights to indicate the mode selected

Remote Controller



- ① **Signal transmitter**
It sends signals to the indoor unit.
- ② **Temperature setting buttons**
Press to raise or lower the desire temperature.
- ③ **Fan speed setting button**
Press to select the fan speed in five steps.
"(Auto, Low, Middle, Hige, Eco) "
- ④ **On/Off button**
Press this button once to start operation.
Press once again to stop it.
- ⑤ **Air swing button**
Press this button once to auto operation of flap front.
Press once again to stop of flap front.
- ⑥ **Turbo button**
Press to select super power operation mode
- ⑦ **Focus/Wide button**
Press to select air direction.
- ⑧ **Lamp button**
Press to control the luminosity of the led display on unit.
- ⑨ **Mode selection button**
Press to cycle through the modes.
[Auto/Cool/Fan/Dehumidifier/heat]
- ⑩ **Timer On/Off button**
Press to set the unit off or on time.
"(0.5,1,1.5,2,2.5,3,4,5,6,8,10,12,16,20,24)"
- ⑪ **Timer Enter/Cancel timer button**
Press to enter a timer setting or to cancel timer setting.
- ⑫ **Sleep button**
Press to set the unit for the sleep mode.

OPERATION

CONNECTING THE AC CORD

The outdoor unit is connected to the indoor unit through the AC connecting wire or connection cord.

INFORMATION:

1. The plug shall be connected to a ground socket outlet, and the interconnection cord shall be connected by an authorized electrician or specialist.
2. Information for interconnection cable:

Items	Specifications
TAS-09SVH/12SVH	AC 250V, 10A, AWG 18

3. Contact service man for the installation shall be in accordance with national wiring regulation

NOTES:

- Never connect the AC line cord plug to other than the specified voltage (220V).
- Use the attached power cord only.
- If the outlet is a 3-pronged type or others, have an electrician install a new outlet.
- The new air conditioner system should be on its own 220V circuit. Contact your local electrical installer for installation.

HOW TO INSTALL BATTERIES

To install the batteries, follow the procedures below:

1. Open the cover after pressing the arrow direction and pulling out.



2. Put the Alkaline batteries (1.5V, AAA) by $\oplus\ominus$ direction.



3. Close the cover after pushing into arrow direction.

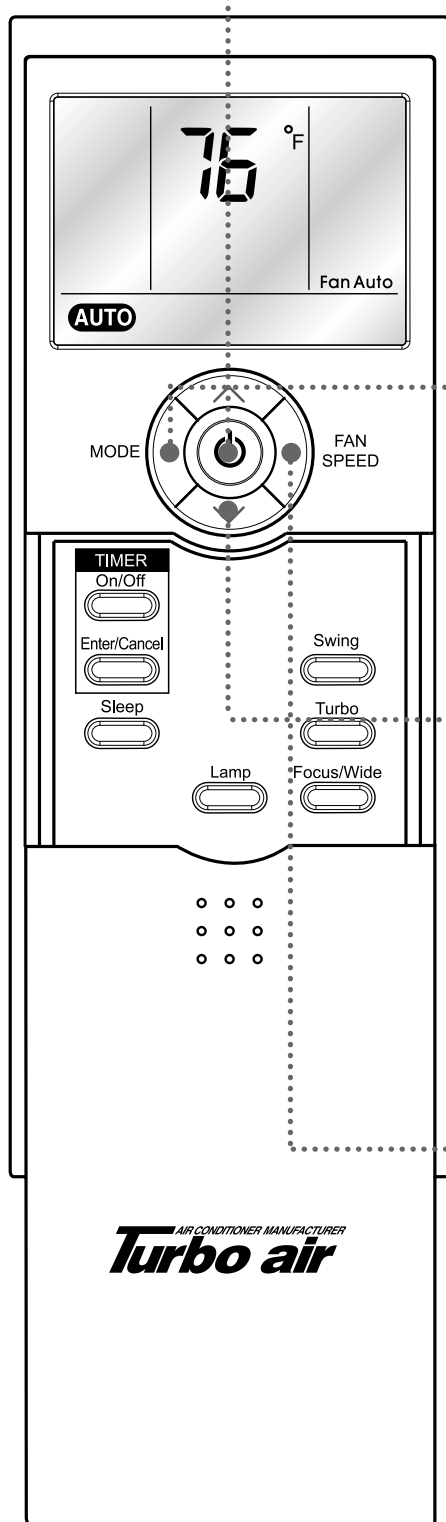


BATTERY PRECAUTIONS

The precautions below should be followed when using batteries in this device:

1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions).

Auto operation



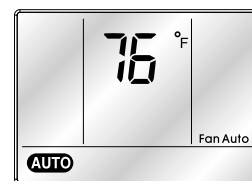
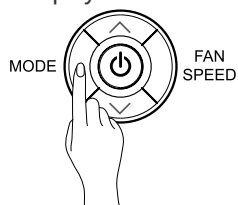
1

Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.



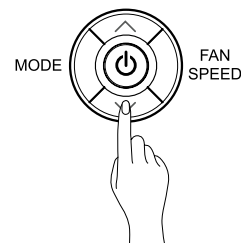
2

To select Auto operation mode, press the mode button. Make sure the "AUTO" indicator appears in the remote display.



3

The temperature and fan speed are automatically set by the electronic control based on the actual room temperature. If you want to change the set temperature, press the temperature setting button. For temperature setting : 72°F~80°F.



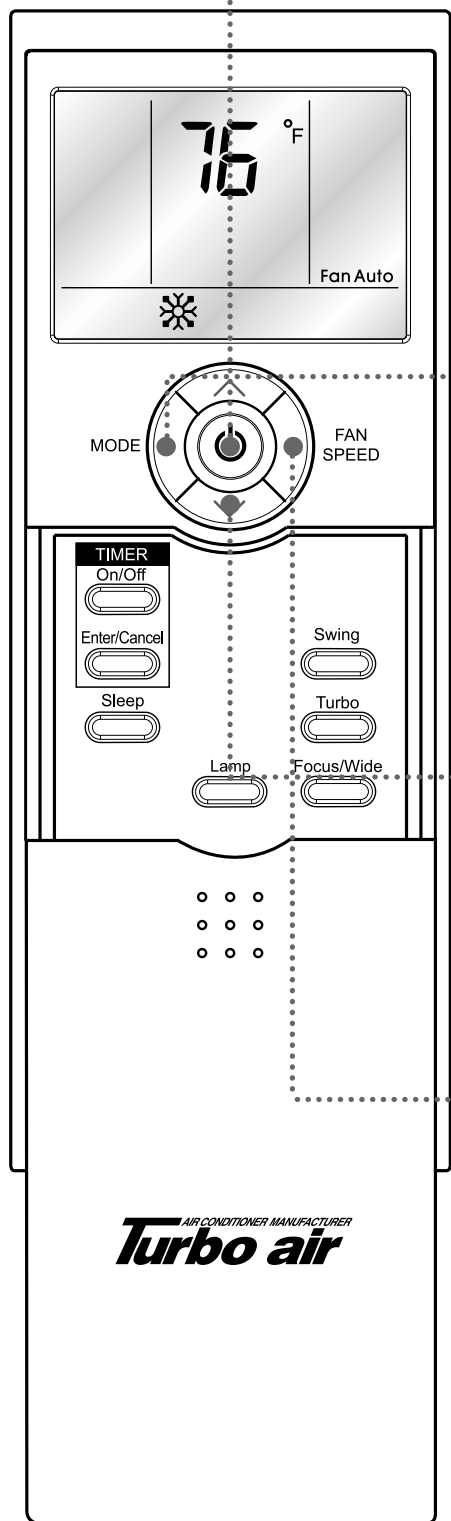
4

To select the fan speed, press the fan speed setting button until the desired speed appears in the remote display.(see below)

FAN SPEEDS

- | | |
|------------|--|
| "Fan Auto" | The fan will automatically select the fan speed. |
| "Low" | The fan will operate on low speed. |
| "Med" | The fan will operate on medium speed. |
| "High" | The fan will operate on high speed. |
| "Eco" | The fan will randomly cycle through the speeds simulating a cool breeze. |

Cooling operation



1 Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.

2 To select cooling operation mode, press the mode button. Make sure the "❄" indicator appears in the remote display.

3 Set the temperature lower than the room temperature. The desired temperature can be changed up to 92°F and down to 64°F.

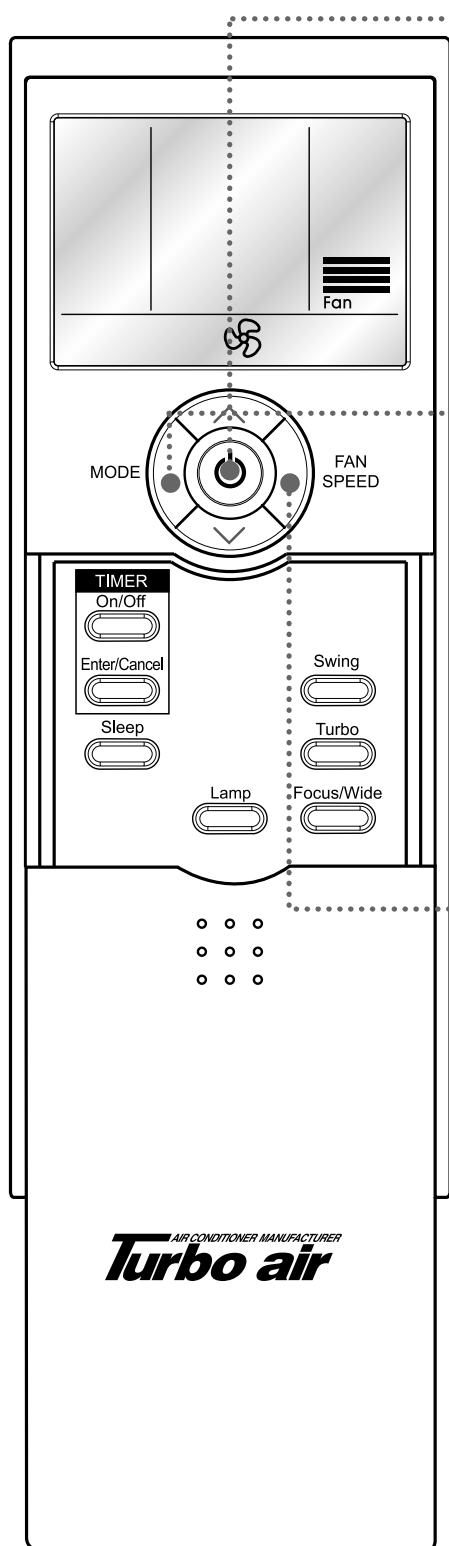
4 To select the fan speed, press the fan speed setting button until the desired speed appears in the remote display.(see below)

FAN SPEEDS

"Fan Auto"	The fan will automatically select the fan speed.
"Low"	The fan will operate on low speed.
"Med"	The fan will operate on medium speed.
"High"	The fan will operate on high speed.
"Eco"	The fan will randomly cycle through the speeds simulating a cool breeze.

Turbo air AIR CONDITIONER MANUFACTURER

Fan operation



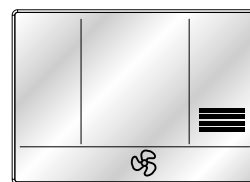
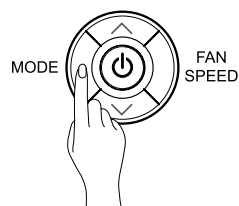
1

Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.



2

To select fan operation mode, press the mode button. Make sure the " " indicator appears in the remote display.



3

To select the fan speed, press the fan speed setting button until the desired speed appears in the remote display.(see below)

FAN SPEEDS



The fan will operate on low speed.



The fan will operate on medium speed.



The fan will operate on high speed.

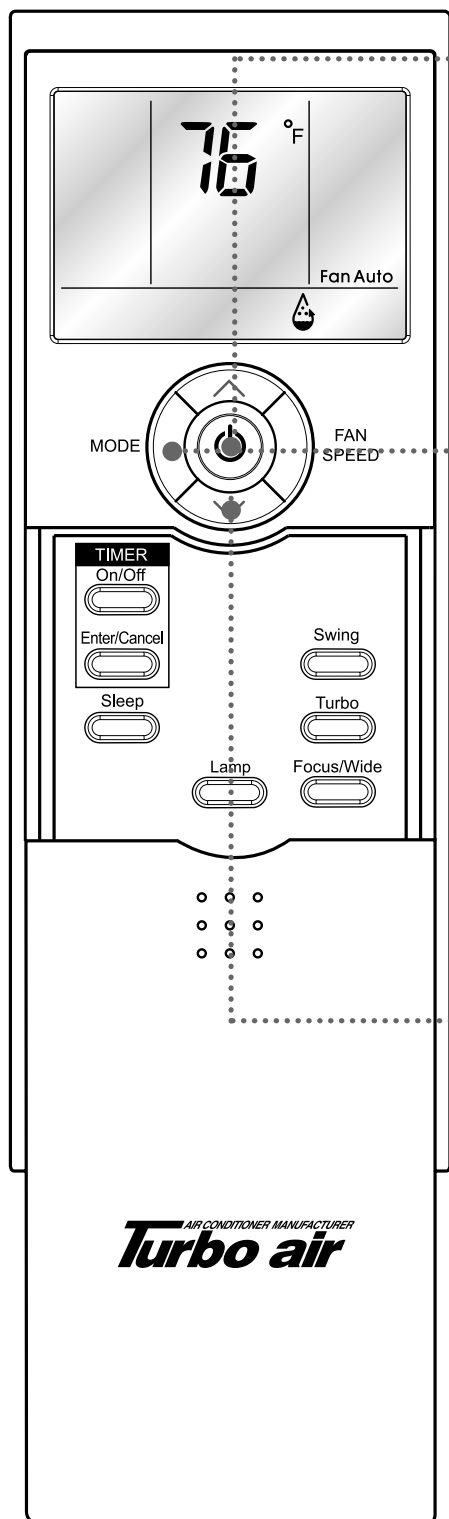


The fan will randomly cycle through the speeds simulating a cool breeze.

NOTICE

If fan operation mode select, you are not able to control temperature.

Dehumidification operation



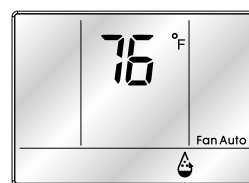
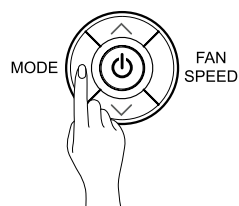
1

Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.



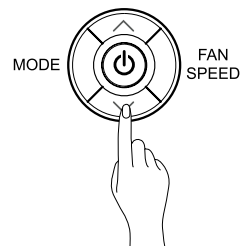
2

To select Dehumidification operation mode, press the mode button. Make sure the "💧" indicator appears in the remote display.



3

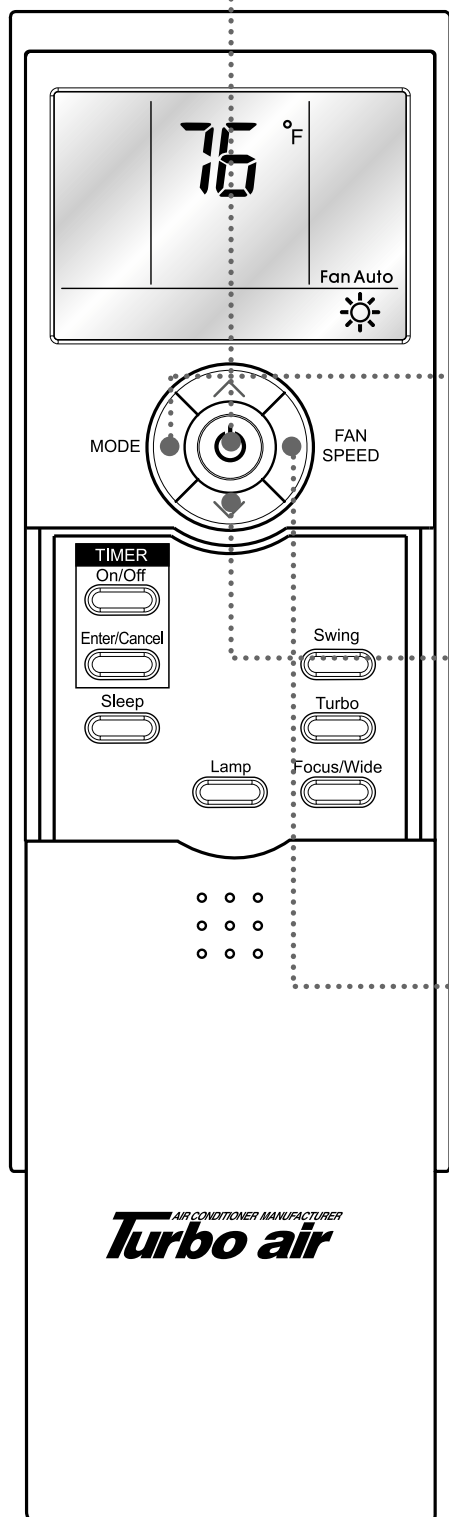
Set the temperature lower than the room temperature. The desired temperature can be changed up to 92°F and down to 64°F.



NOTICE

If Dehumidification operation mode select, you are not able to control fan speed.

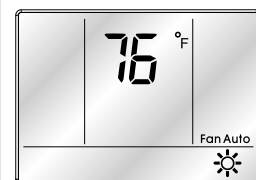
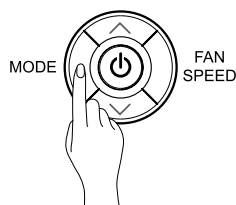
Heating operation



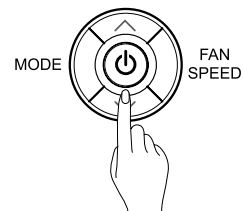
- 1** Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.



- 2** To select heating operation mode, press the mode button. Make sure the "☀" indicator appears in the remote display.



- 3** Set the temperature higher than the room temperature. The desire temperature can be changed up to 92°F and down to 64°F.



- 4** To select the fan speed, press the fan speed setting button until the desired speed appears in the remote display.(see below)

FAN SPEEDS

- "Fan Auto" The fan will automatically select the fan speed.
- "Low" The fan will operate on low speed.
- "Med" The fan will operate on medium speed.
- "High" The fan will operate on high speed.
- "Eco" The fan will randomly cycle through the speeds simulating a cool breeze.

NOTICE

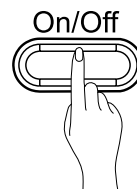
When the heating operation is started, hot air delivery might be delayed due to warm up period.

Additional operation

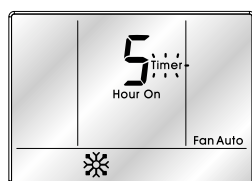
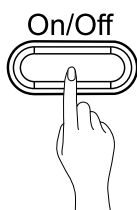
Setting the time operation

- 1** Press the On/Off button of timer on the remote control to setting the time operation, "Hour" and "On" on the remote display will be displayed and "Timer" will be "On". When you increase to press "On/Off" you will get desired time. Then, if pressing "Enter/Cancel" button, On timer mode will be started. If you want to stop On timer mode, please press "Enter/Cancel" again.

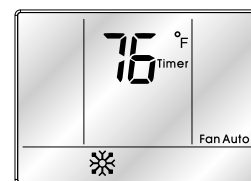
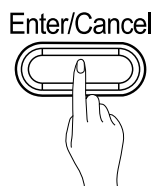
- 2** Open the cover on Remote Controller. While the unit is off, press the TIMER On/Off button; the display will light waiting input for the timer, but the actual unit will not turn on.



- 3** Repeatedly press the TIMER On/Off button until the desired hour that you want the unit to turn on appears on the display.



- 4** Press the Enter/Cancel button to input the setting into memory; the unit will beep, the TIMER indicator will light on the unit and the TIMER indicator on the remote will light to indicate the unit is in the timer mode.



NOTICE

Press the Enter/Cancel button within 5 seconds of selecting the desired time. If more than 5 seconds elapse, steps 3 and 4 must be repeated.

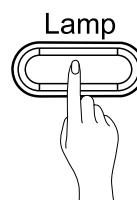
Lamp operation

- 1** Press the Lamp button, then bright of LED is softly.

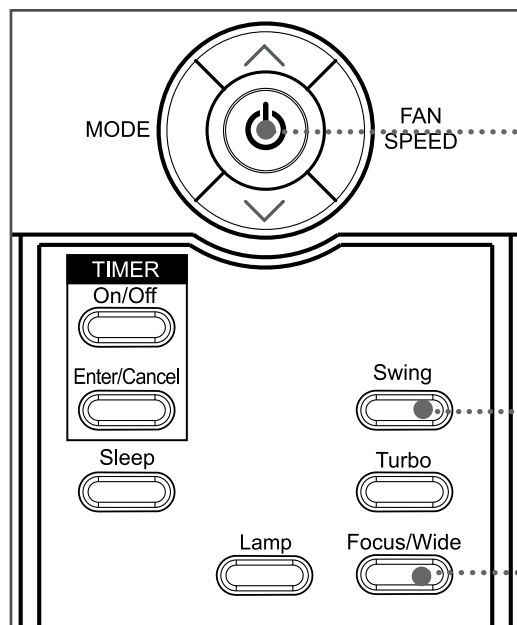
- 2** Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.



- 3** Open the cover on Remote Controller. press the Lamp button; the display will light .



Airflow direction control operation



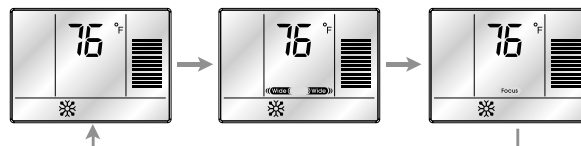
1

Press the On/Off button on the remote control to turn the unit on; LED will light on the indoor unit and the unit will respond with beep sound.



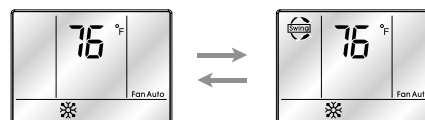
2

Used to Focus/Wide button to below the airflow direction far away/ below concentrately. (see below)



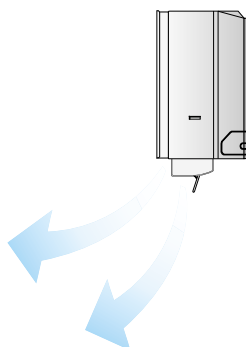
3

Press to select up/down direction for airflow (see below)



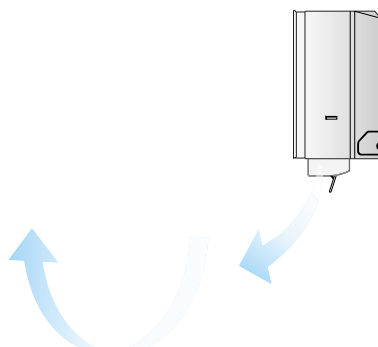
Swing button

Used to stop and start louver movement and set the desired up/down airflow direction.



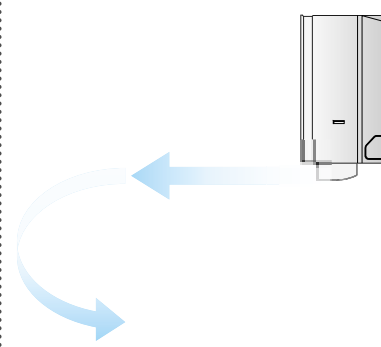
Focus/Wide button

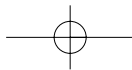
Used to stop and start louver movement and set the desired airflow direction downward concentrately.



Focus/Wide button

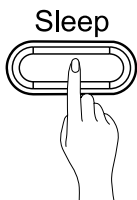
Used to stop and start louver movement and set the desired airflow direction far away concentrately.



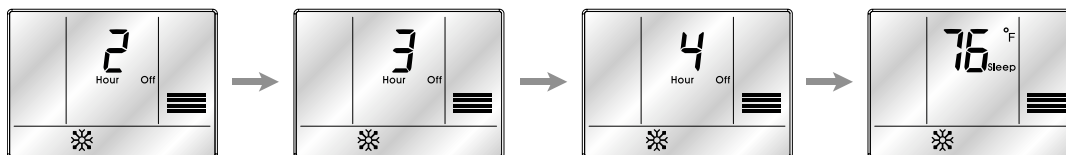


Sleep operation

1. Press the Sleep button.



2. Two hour off from now is indicated on the remote controller display and time is changed at each pressing the sleep button. ex) If it is set "4hour" at 4 hour from the present time it is off automatically.



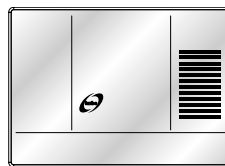
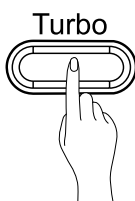
3. During the setting time when sleeping it is silent and comfortable operation function.

NOTICE

Time change is possible within 5 seconds at setting initial time after 5 seconds press the sleep button will cancel sleep mode.

Turbo operation

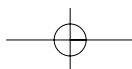
1. Press the Turbo button.

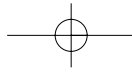


2. When you want powerful cool/heat(option), please press the Turbo button.
3. To cancel Turbo operation, please press Turbo button again.

NOTICE

In case of TAS-09SVH/12SVH Turbo operation running time is limited within 30 minutes after 30 minutes it will be return to previous operation mode.



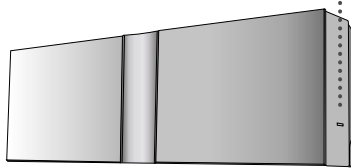


ON/OFF operation

If the remote control is lost, broken or has no batteries, follow the procedures below:

1. To the unit turn on, press the ON/OFF switch once.

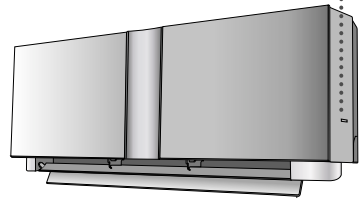
ON/OFF
switch



2. The unit will then turn on and depending on the room temperature, it will select the or dehumidifier, fan speed and fan direction automatically.

3. To the unit turn off, press the ON/OFF switch once again.

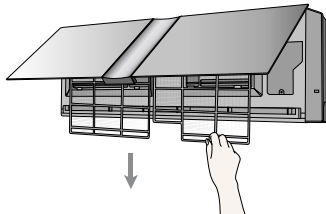
ON/OFF
switch



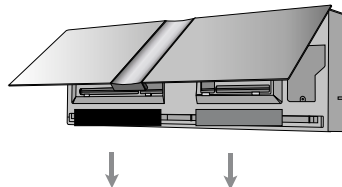
CHANGING/CLEANING THE AIR FILTERS

To change or clean the two air filters, follow the procedures below:

1. Open the indoor unit's cover and remove both air filters by bending them slightly backward and the lifting out.



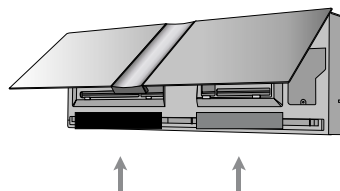
2. Remove the Carbon, Enzyme Filter.



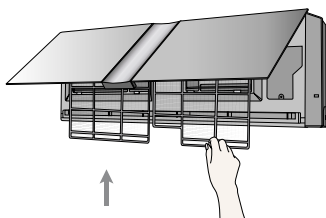
3. Examine the filters and determine if they need to be cleaned or replaced. To clean filters, use a vacuum and clean off dust. Use water and mild soap also if necessary.

NOTES: The filters should be changed every 6 months. If in a climate with cold winters, once a year is adequate.

4. Insert cleaned or new small filters (Carbon and Enzyme) back into the unit.



5. Insert cleaned or new filters back into the unit.



Caution : When you remove the electric dust collector, you must remove the power plug.

CARE AND MAINTENANCE

**warning**

- Make sure the AC cord is unplugged and the unit is off before cleaning.
- Do not use water on the unit to clean it. This is a shock hazard and the unit can be damaged.

Clean the casing and front of the indoor unit with a vacuum brush or wipe with a clean damp cloth.

NEVER USE

- Solvents, harsh chemicals or hot water to clean the unit.
- Some metal edges on the unit are sharp. Be careful when cleaning or handling.
- Internal parts in the outdoor unit may need cleaning or routine maintenance from time to time. Consult your local service center for more details.

AFTER THE SEASON:

- Operate the fan, then dry the indoor unit.
- Shut off the indoor unit and then unplug it from the wall.
- Clean the air filters.
- Cover the outdoor unit with the supplied cover; this is very important to protect this unit.

BEFORE THE SEASON:

- Make sure the air filters are clean.
- Make sure the inlet and outlet on the indoor and outdoor units are not blocked by obstructions.
- Make sure the unit is grounded. Consult a serviceman for help.

PRECAUTIONS:

- Do not use this unit for animal or plant storage.
- In a lightning or thunder storm, immediately unplug it from the wall.

TROUBLESHOOTING GUIDE

To change or clean the two air filters, follow the procedures below:

SYSPTOMS	POSSIBLE CAUSE	POSSIBLE SOLUTIONS
No power.	Power failure.	Restore the power
	Line voltage too low.	Contact electrician to install new outlet.
	Unit is unplugged or not completely plugged in.	Insert plug all the way.
	Unit is off.	Turn unit on.
	Batteries in remote are weak or dead.	Replace remote's batteries.
The compressor does not turn on. (no cool air at cooling) (no heat air at heating)	When the unit is first plugged in and turned on, the compressor will delay turn on for 3 minutes.	Wait 3 minutes for the unit to operate.
	If the unit is turned off and then immediately back on, the compressor will delay for 3 minutes.	Wait 3 minutes for the unit to operate.
	The air filter(s) is dirty or clogged.	Clean or replace filter(s).
	A door or window is open.	Shut door or window.
	There is an obstacle in front of intake or indoor unit.	Remove obstacle.
	The temperature has been set improperly.	Check and reset if necessary.
Strange sounds occur.	During operation, especially after turning it on or off, refrigerant flows inside the unit.	This is normal.
Strange smells occur.	The fan is bringing out the smells of the carpet, walls, etc.	The smell should go away shortly.
No remote operation.	Batteries are weak, dead or inserted improperly.	Replace batteries.
	Remote is out of range.	Move closer to unit.
	Remote not aimed at sensor.	Aim remote at sensor.
	There is an obstruction between unit and remote.	Remove obstruction.



TURBO AIR INC. MINI-SPLIT LIMITED WARRANTY STATEMENT R22 & R410A SYSTEMS

Turbo air Inc. warrants R22 & R410A products conforms to the manufacturers specifications and will be free of defects in material and workmanship and should any defect occur, Turbo air Inc. will correct the defects subject to the following conditions.

PARTS: for a period of **two years** from said date of sale or installation for the residential installation. For commercial installation **one year**. Turbo air Inc will supply new, or at its option rebuilt replacement parts.

COMPRESSOR: for a period of **five years** from said date of sale or installation for residential installation. For commercial installation **one year**. Turbo air Inc. will supply new compressor.

REMOTE CONTROL: for a period of **one year** from said date of sale or installation. Whichever is later, Turbo air Inc. will exchange with a new remote control.

PROOF OF PURCHASE: Copy of the proof of purchase is required to make this warranty valid. Or valid manufacture serial number of unit.

THIS WARRANTY DOES NOT COVER LABOR or:

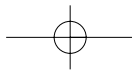
- ¥ Shipping damage.
- ¥ System installation.
- ¥ Unpacking and/or removal of protective shipping material.
- ¥ Usage outside manufacturer s limitations as specified in the owner s manual.
- ¥ Service required as a result of improper installation, incorrect or insufficient AC supply voltage.
- ¥ Installation, set up, or adjustments of consumer controls.
- ¥ Any owner than the original owner.
- ¥ Damage from modification or incorporation into other products.
- ¥ Any failure, loss, damage or person injury due to accident, neglect, or abuse by the consumer or to improper operation, maintenance or storage or to alteration or to failure to follow normal procedures as outlined in the instruction manual.
- ¥ Any unit purchased from an unauthorized dealer, any online retailer or not directly from turbo air.
- ¥ Transportation charges incurred in connection with warranty service.
- ¥ Indirect, consequential, or special damages, except as required by Federal or State laws.
- ¥ Repair or replacement of warranted part by other than qualified installer.

THE WARRANTY AND REMEDY STATED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESSFOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW EXCLUSION OF IMPLIED WARRANTY, THEREFORE THIS WARRANTY SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH LAWS.

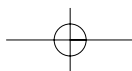
Some states do not allow limitation on how long an implied warranty lasts; therefore these limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights. You may also have other rights that may vary from state to state.

This warranty applies to the united states, Canada.

Turbo Air Inc.
1250 E Victoria st
Carson, CA 90746



AIR CONDITIONER MANUFACTURER
Turbo air



ABOUT THIS MANUAL

VISION CREATIVE, INC.

서울 종로구 통의동 6번지 이룸빌딩 4층

답 당	장성운님		TEL	
MODEL	TAS - 09SVH/12SVH			
BUYER	영어			
일 정	1차	07.6.25	6차	07.7.25
	2차	07.6.26	7차	
	3차	07.7.05	8차	
	4차	07.7.10	9차	
	5차	07.7.11	10차	
제 판			인쇄	
규 격				
MEMO				
07.6.25 - 신규19p 07.6.26 - 6,13,16,17 - 수정 07.7.05 - 6p_수정 07.7.10 - 4p_실외기수정 07.7.11 - 4p_실외기내용수정 07.7.25 - 표지, 4p_수정 07.8.06 - 4,5,7,8,10,11,12,13,14 - 수정(신규9p) 07.8.07 - 5,7,8,10,11,12,13,14 - 수정 07.8.08 - 표지앞,뒤 - 수정(신규2p) 07.8.20 - 2,5,7,8,9,10,11,14 - 수정 07.8.21 - 14 - 수정 07.8.21 - 3p 목차 부분 바탕에 깔린 DAEWOO 로고 삭제. 07.9.04 - 표지,4,14 - 모델명삭제수정_(신규3p) 07.9.05 - 14,19(페이지삽입)수정_(신규1p)				

연락처

VISION 담당 이지혜

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